# *Personal Systems Reference Lenovo® Essential Desktops*

*August 2012 - Version 422*

H4xx series Desktop

C3xx series All-In-One

*Visit **www.lenovo.com/psref** for the latest version*

Lenovo C200
Black

Lenovo C200
Black

Lenovo C200
Black

# Lenovo® C200 (4025) - Windows 7



| Type-model | Processor | GHz | Memory | Wide-screen display | Touch screen | Camera (mega-pixel) | Graphics | SATA disk | SATA optical | Color | TV tuner | PCIe Mini Card 802.11 | Blue-tooth | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4025-1BU | Atom D510 | 1.66 | 2GB DDR2 | 18.5" HD | | 0.3M | NVIDIA ION | 320GB[8] | DVD±RW | Black | None | 11b/g/n[28] | None | Prem 32 | Apr 10 |
| 4025-1CU | Atom D510 | 1.66 | 2GB DDR2 | 18.5" HD | *Touch* | 0.3M | NVIDIA ION | 320GB | DVD±RW | Black | None | 11b/g/n | None | Prem 32 | Apr 10 |
| 4025-3GU | Atom D510 | 1.66 | 1GB DDR2 | 18.5" HD | | 0.3M | GMA 3150 | 250GB | DVD±RW | Black | None | 11b/g/n | None | Prem 32 | Aug 10 |
| ☞ 4025-3LU | Atom D525 | 1.80 | 1GB DDR3 | 18.5" HD | | 0.3M | GMA 3150 | 250GB | DVD±RW | Black | None | 11b/g/n | None | Prem 32 | Mar 11 |

- ***All-In-One design with 18.5" 16:9 wide screen***
- ***Some: touchscreen supports one-finger touch***
- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***Easily adjustable stand (-5° to +25° viewing angle)***
- ***These systems are Microsoft Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **Intel® Atom™ Processor D510** with **dual-core**, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache<br>**Intel Atom Processor D525** with **dual-core**, integrated DDR2/DDR3 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache |
| Memory | **1GB** or **2GB** std / 4GB max[7] / non-parity, single-channel<br>*Some:* **PC2-5300 667MHz DDR2**, two 200-pin SO-DIMM sockets;<br>*Some:* **PC3-6400 800MHz DDR3**, two 204-pin SO-DIMM sockets;<br>*Non-Italics:* standard memory in one socket; one socket available |
| SATA DVD±RW | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in |
| SATA disk | **250GB** or **320GB**, SATA 3.0Gb/s, 2.5" wide, 5400 rpm |
| Widescreen display | **18.5"** (470mm) **HD (1366x768) TFT color**, anti-glare**,** CCFL backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio;<br>*Some:* touchscreen supports one-finger touch |
| Camera | Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone |
| Controls | Power button, brightness up, brightness down, and display on/off buttons |
| Graphics | *Some:* **Intel Graphics Media Accelerator 3150 (GMA 3150)**, in processor;<br>*Some:* **NVIDIA® ION™ graphics processor**, DirectX 10, PureVideo® HD technology, **256MB** memory |
| Chipset | **Intel NM10 Express Chipset** |
| Multicard reader | 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity) |
| Ports | *Rear:* Three USB 2.0, ethernet (RJ-45), keyboard (PS/2),<br>*Side:* Two USB 2.0 |
| PCIe Mini Card | One Mini PCI Express Mini Card slot |
| 11b/g/n[28] | 11b/g/n wireless[4], PCIe Mini Card, Broadcom® BCM4313 or Atheros® AR9285 |
| TV tuner | None |
| Bluetooth™ | None |
| Modem | None |
| Ethernet | 10/100 ethernet on planar, Intel® 82552V |
| Audio support | High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) |
| Security | Power-on password, supervisor password, security lockhole |
| Keyboard | PS/2 full-size keyboard, black |
| Mouse | USB Optical Wheel Mouse, black |
| Remote control | None |
| Dimensions[3] | *(WxHxD) including stand:* 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm |
| Weight[2] | *Non-touchscreen model:* 16.0lb (7.26kg);<br>*Touchscreen model:* 17.1lb (7.76kg) |
| Chassis | Front bezel: black color; back bezel: black color |
| Stand | Easily adjustable stand (-5° to +25° viewing angle) |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 32

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- Corel® WinDVD®
- Lenovo IdeaTouch (Touch models)
  – Lenovo VeriTouch
- Windows Live Essential
- Microsoft® Office 2010 preloaded; purchase product key to activate

65-watt AC adapter
RoHS-compliant

**Limited Warranty**[12]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts**[23]**, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7**[16] **toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information

☞ US model announced March 23, 2011; previous models on April 28 or August 25, 2010

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# Lenovo® C200 (4025) - Windows 7 (web only models)



| Type-model | Processor | GHz | Memory | Wide-screen display | Touch screen | Camera (mega-pixel) | Graphics | SATA disk | SATA optical | Color | TV tuner | PCIe Mini Card 802.11 | Blue-tooth | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4025-3HU | Atom D410 | 1.66 | 2GB | 18.5" HD | None | 0.3M | GMA 3150 | 320GB[8] | DVD±RW | Black | None | 11b/g/n[28] | None | Prem 32 | Sep 10 |
| 4025-3JU | Atom D510 | 1.66 | 2GBx2 | 18.5" HD | None | 0.3M | GMA 3150 | 500GB | DVD±RW | Black | None | 11b/g/n | None | Prem 64 | Sep 10 |
| 4025-3KU | Atom D510 | 1.66 | 2GBx2 | 18.5" HD | None | 0.3M | NVIDIA ION | 500GB | DVD±RW | Black | None | 11b/g/n | None | Prem 64 | Sep 10 |

- ***All-In-One design with 18.5" 16:9 wide screen***
- ***Lenovo® Rescue System provides OneKey recovery without booting into Windows***
- ***Easily adjustable stand (-5° to +25° viewing angle)***

| | |
|---|---|
| Processor | **Intel® Atom™ Processor D410** with single-core, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 512KB L2 cache or **Intel Atom Processor D510** with **dual-core**, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache |
| Memory | **2GB** or **4GB** std / 4GB max[7] / **PC2-5300 667MHz DDR2**, non-parity, single-channel, two 200-pin SO-DIMM sockets |
| SATA optical | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in |
| SATA disk | **320GB** or **500GB**, SATA 3.0Gb/s, 2.5" wide, 5400 rpm |
| Widescreen display | **18.5"** (470mm) **HD (1366x768) TFT color**, anti-glare**,** CCFL backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio |
| Camera | Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone |
| Controls | Power button, brightness up, brightness down, and display on/off buttons |
| Graphics | *Some:* **Intel Graphics Media Accelerator 3150 (GMA 3150)**, in processor; *Some:* **NVIDIA® ION™ graphics processor**, DirectX® 10, PureVideo® HD technology, **256MB** memory |
| Chipset | **Intel NM10 Express Chipset** |
| Multicard reader | 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity) |
| Ports | *Rear:* Three USB 2.0, ethernet (RJ-45), keyboard (PS/2)<br>*Side:* Two USB 2.0 |
| PCIe Mini Card | One Mini PCI Express Mini Card slot |
| 11b/g/n[28] | 11b/g/n wireless[4], PCIe Mini Card, Broadcom® BCM4313 or Atheros® AR9285 |
| TV tuner | None |
| Bluetooth™ | None |
| Modem | None |
| Ethernet | 10/100 ethernet on planar, Intel® 82552V |
| Audio support | High Definition (HD) Audio, Realtek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) |
| Security | Power-on password, supervisor password, security lockhole |
| Keyboard | PS/2 full-size keyboard, black |
| Mouse | USB Optical Wheel Mouse, black |
| Remote control | None |
| Dimensions[3] | *(WxHxD) including stand:* 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm |
| Weight[2] | *Non-touchscreen model:* 16.0lb (7.26kg);<br>*Touchscreen model:* 17.1lb (7.76kg) |
| Chassis | Front bezel: black color; back bezel: black color |
| Stand | Easily adjustable stand (-5° to +25° viewing angle) |

**Preloaded operating system**[20]
- *Some:* Genuine Windows® 7 Home Premium 32
- *Some:* Genuine Windows 7 Home Premium 64

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- Corel® WinDVD®
- Lenovo IdeaTouch (Touch models) – Lenovo VeriTouch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

65-watt AC adapter
RoHS-compliant

**Limited Warranty**[12]
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[23], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7**[16] **toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US models announced September 8, 2010

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# Lenovo® C205 (7729)



| Type-model | Pro-cessor | GHz | Memory | Wide-screen display | CCFL or LED | Touch screen | Camera (mega-pixel) | Graphics | SATA disk | SATA optical | Color | TV tuner | PCIe Mini Card 802.11 | Blue-tooth | AC adapter | Win7 preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7729-1LU | E-350 | 1.60 | 2GBx1 | 18.5" HD | LED | None | 0.3M | HD6310 | 320GB[8] | DVD±RW | Black | None | 11b/g/n[28] | None | 65W | Home Prem 64 |
| 7729-1KU | E-350 | 1.60 | 4GBx1 | 18.5" HD | LED | None | 0.3M | HD6310 | 500GB | DVD±RW | Black | None | 11b/g/n | None | 65W | Home Prem 64 |

- ***All-In-One design with 18.5" 16:9 wide screen***
- ***Some: touchscreen supports one-finger touch***
- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***Easily adjustable stand (-5° to +20° viewing angle)***
- ***These systems are Microsoft Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD Accelerated Processor E-350** (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz) |
| Memory | 8GB max[7] / non-parity, **PC3-10600 1333MHz DDR3***, two 204-pin SO-DIMM sockets;<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| SATA DVD±RW<br>SATA disk | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in<br>**320GB** (5400 rpm) or **500GB** (5400 rpm), SATA 3.0Gb/s, 2.5" wide |
| Widescreen display<br><br>Camera<br>Controls | **18.5"** (470mm) **HD (1366x768) TFT color**, **LED** backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio;<br>*Some:* touchscreen supports one-finger touch<br>Camera on top of screen, 0.3-megapixel, fixed focus<br>Power button, brightness up, brightness down, and display on/off buttons |
| Graphics | **AMD Radeon HD 6310 Graphics** in processor, DirectX® 11, use system memory |
| Chipset<br>Multicard reader<br><br>Ports | **AMD A45 FCH**<br>5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity)<br>*Rear:* Three USB 2.0, ethernet (RJ-45), keyboard (PS/2),<br>*Side:* Two USB 2.0 |
| PCIe Mini Card 11b/g/n[28]<br>TV tuner<br>Bluetooth™<br>Modem<br>Ethernet<br>Audio support<br><br><br>Security | Two PCIe Mini Card slots (one full size and one half size)<br>11b/g/n wireless[4], PCIe Mini Card, Broadcom®, Realtek®, or Atheros® chip<br>None<br>None<br>None<br>Gigabit ethernet on planar, Realtek RTL8111E<br>High Definition (HD) Audio, Realtek ALC662 codec /<br>two stereo speakers (3 watt x 2) / mono microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)<br>Power-on password, administrator password, security lockhole |
| Keyboard<br>Mouse<br>Remote control | PS/2 full-size keyboard, black<br>USB Optical Wheel Mouse, black<br>None |
| Dimensions[3]<br>Weight[2]<br><br>Chassis<br>Stand | *(WxHxD) including stand:* 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm<br>*Non-touchscreen model:* 12.8lb (5.8kg);<br>*Touchscreen model:* 13.4lb (6.1kg)<br>Front bezel: black color; back bezel: black color<br>Easily adjustable stand (-5° to +20° viewing angle) |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo IdeaTouch (Touch models)
  - PowerCinema
  - Lenovo VeriTouch
  - PhotoStudio Paint
  - Lenovo Ebook and Quick Notes
- Windows Live Essential
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

*Integrated models:* 65-watt AC adapter
*Discrete models:* 90-watt AC adapter
RoHS-compliant

**Limited Warranty**[12]
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[23], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):[9]**
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7[16] toll-free support for warranty issues during the warranty period[12] via 877-453-6686**

See footnotes for important warranty information
US models announced September 1, 2011

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Lenovo C315

Lenovo C315

Lenovo C315

Lenovo C315

| Type-model | Processor | GHz | Memory | Wide-screen display | Multi-Touch screen | Camera (mega-pixel) | Discrete graphics | SATA disk | SATA optical | TV tuner | Remote control | PCIe Mini Card 802.11 | Blue-tooth | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4022-1AU | Athlon II X2 250u | 1.60 | 2GB | 20" HD+ | *Multi* | 0.3M | HD 4530 | 320GB[8] | DVD±RW | None | None | 11b/g[28] | None | Prem 32 | Apr 10 |

- ***All-In-One design with 20" 16:9 multi-touch screen***
- ***Lenovo® Rescue System provides OneKey recovery without booting into Windows***
- ***Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°***

| | |
|---|---|
| Processor | **AMD® Athlon™ II X2 Processor 250u** with **dual-core**, 3200MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR2 memory controller, and 2MB L2 cache (1MB per core) |
| Memory | **2GB** std / 4GB max[7] / **PC2-5300 667MHz DDR2**, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;<br>*Non-Italics:* standard memory in one sockets; one socket available |
| SATA DVD±RW | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in |
| SATA disk | **320GB**, SATA 3.0Gb/s, 3.5" wide, 7200 rpm |
| Widescreen display | **20"** (508mm) **HD+ (1600x900) TFT color**, anti-glare**,** CCFL backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio, MultiTouch |
| Camera | Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone |
| Controls | Power button, touch-sensitive buttons for brightness +/-, volume +/-, and display on/off |
| Discrete Graphics | **ATI™ Mobility Radeon™ HD 4530**, PCI Express® x16, **512MB** memory, DirectX® 10, ATI Avivo™ HD |
| Chipset | **AMD 690M Chipset**, SB600 south bridge |
| Multicard reader | 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™) |
| Ports | *Rear:* Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)<br>*Side:* Two USB 2.0 |
| PCIe Mini Card 11b/g[28] | Two Mini PCI Express Mini Card slots<br>11b/g wireless[4], Mini PCIe adapter, Broadcom® BCM4312 |
| TV tuner | None |
| Bluetooth™ | None |
| Modem | None |
| Ethernet | 10/100 ethernet on planar, Broadcom® BCM5787 |
| Audio support | High Definition (HD) Audio, RealTek® ALC262 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) |
| Security | Power-on password, supervisor password, security lockhole |
| Keyboard | PS/2 full-size keyboard, black |
| Mouse | USB Optical Wheel Mouse, black |
| Remote control | None |
| Dimensions[3] | *(WxHxD):* 19.05" x 14.12" x 2.56"; 484mm x 359mm x 65mm |
| Weight[2] | 16.3 lb (7.4 kg) |
| Chassis | Front bezel: brown color; back bezel: black color |
| Stand | Fold-away stand (adjustable between 12° and 40°) |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 32

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch
  - – PowerCinema
  - – Lenovo VeriTouch
  - – AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

120-watt AC adapter
RoHS-compliant

**Limited Warranty**[12]
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[23], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7**[16] **toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US model announced April 28, 2010

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# Lenovo® C315 (4022) - Windows 7 (web only models)



| Type-model | Processor | GHz | Memory | Wide-screen display | Multi-Touch screen | Camera (mega-pixel) | Discrete graphics | SATA disk | SATA optical | TV tuner | Remote control | PCIe Mini Card 802.11 | Blue-tooth | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4022-1FU | Athlon II X2 250u | 1.60 | 2GB | 20" HD+ | *Multi* | 0.3M | HD 4530 | 320GB[8] | DVD±RW | TV | Remote | 11b/g[28] | None | Prem 32 | Apr 10 |
| 4022-1GU | Athlon II X2 250u | 1.60 | *4GB* | 20" HD+ | *Multi* | 0.3M | HD 4530 | 500GB | DVD±RW | TV | Remote | 11b/g | None | Prem 64 | Apr 10 |

- ***All-In-One design with 20" 16:9 multi-touch screen***
- ***Lenovo® Rescue System provides OneKey recovery without booting into Windows***
- ***Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°***

| | |
|---|---|
| Processor | **AMD® Athlon™ II X2 Processor 250u** with **dual-core**, 3200MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR2 memory controller, and 2MB L2 cache (1MB per core) |
| Memory | **2GB** or **4GB** std / 4GB max[7] / **PC2-5300 667MHz DDR2**, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;<br>*Italics:* standard memory in both sockets; no sockets available;<br>*Non-Italics:* standard memory in one sockets; one socket available |
| SATA DVD±RW | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in |
| SATA disk | **320GB** or **500GB**, SATA 3.0Gb/s, 3.5" wide, 7200 rpm |
| Widescreen display | **20"** (508mm) **HD+ (1600x900) TFT color**, anti-glare**,** CCFL backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio, MultiTouch |
| Camera | Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone |
| Controls | Power button, touch-sensitive buttons for brightness +/-, volume +/-, and display on/off |
| Discrete Graphics | **ATI™ Mobility Radeon™ HD 4530**, PCI Express® x16, **512MB** memory, DirectX® 10, ATI Avivo™ HD |
| Chipset | **AMD 690M Chipset**, SB600 south bridge |
| Multicard reader | 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™) |
| Ports | *Rear:* Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV antenna connector, IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)<br>*Side:* Two USB 2.0 |
| PCIe Mini Card | Two Mini PCI Express Mini Card slots |
| 11b/g[28] | 11b/g wireless[4], Mini PCIe adapter, Broadcom® BCM4312 |
| TV tuner | AverMedia Hybrid TV MiniCard A317, PCIe Mini Card adapter, supports analog (NTSC) and digital ( ATSC) signal |
| Bluetooth™ | None |
| Modem | None |
| Ethernet | 10/100 ethernet on planar, Broadcom® BCM5787 |
| Audio support | High Definition (HD) Audio, RealTek® ALC262 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm) |
| Security | Power-on password, supervisor password, security lockhole |
| Keyboard | PS/2 full-size keyboard, black |
| Mouse | USB Optical Wheel Mouse, black |
| Remote control | Philips®Win7 MCE remote control (40-button) |
| Dimensions[3] | *(WxHxD):* 19.05" x 14.12" x 2.56"; 484mm x 359mm x 65mm |
| Weight[2] | 16.3 lb (7.4 kg) |
| Chassis | Front bezel: brown color; back bezel: black color |
| Stand | Fold-away stand (adjustable between 12° and 40°) |

**Preloaded operating system**[20]
- *Some:* Genuine Windows® 7 Home Premium 32
- *Some:* Genuine Windows 7 Home Premium 64

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus defi nitions)
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch
  - – PowerCinema
  - – Lenovo VeriTouch
  - – AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

120-watt AC adapter
RoHS-compliant

**Limited Warranty**[12]
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts**[23]**, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7**[16] **toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US models announced April 28, 2010

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Lenovo C225/C325

Lenovo C225/C325

Lenovo C225/C325

Lenovo C225/C325

Lenovo C225/C325

# Lenovo® C225 (3079) - web only models



| Type-model | Pro-cessor | GHz | Memory | Wide-screen display | CCFL or LED | Touch screen | Camera (mega-pixel) | Graphics | SATA disk | SATA optical | Color | TV tuner | PCIe Mini Card 802.11 | Blue-tooth | Keyboard/ Mouse | Win7 preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3079-2AU | E-450 | 1.65 | 4+2GB | 18.5" HD | LED | None | 0.3M | HD 6320 | 1TB[8] | DVD±RW | Black | None | 11b/g/n[28] | None | USB/Black | Prem 64 |
| 3079-3AU | E-450 | 1.65 | 2GBx2 | 18.5" HD | LED | None | 0.3M | HD 6320 | 500GB | DVD±RW | White | None | 11b/g/n | None | USB/White | Prem 64 |

- ***All-In-One design with 18.5" 16:9 wide screen***
- ***SRS® Premium Sound audio enhancement for immersive surround sound***
- ***Audio-in port to play music from your MP3 player without switching on the computer***
- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD Accelerated Processor E-450** (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz) |
| Memory | 8GB max[7] / non-parity, **PC3-10600 1333MHz DDR3**, two 204-pin SO-DIMM sockets |
| SATA DVD±RW | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in |
| SATA disk | **500GB** (7200 rpm) or **1TB** (7200 rpm), SATA 3.0Gb/s, 3.5" wide |
| Widescreen display | **18.5"** (470mm) **HD (1366x768) TFT color**, **LED** backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio |
| Multi-touch | None |
| Camera | Camera on top of screen, 0.3-megapixel, fixed focus |
| Controls | Power on/off, menu, left, right, and display on/off buttons |
| Graphics | **AMD Radeon HD 6320 Graphics** in processor, DirectX® 11, use system memory |
| Chipset | **AMD A45 FCH** |
| Multicard reader | 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) |
| Ports | *Rear:* Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner<br>*Side:* Two USB 2.0 |
| PCIe Mini Card 11b/g/n[28] | Two PCIe Mini Card slots (one full size and one half size)<br>11b/g/n wireless[4], PCIe half Mini Card, Broadcom®, Realtek®, or Atheros® chip |
| TV tuner | None |
| Bluetooth™ | None |
| Modem | None |
| Ethernet | Gigabit ethernet on planar, Realtek RTL8111E |
| Audio support | High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm) |
| Security | Power-on password, administrator password, security lockhole |
| Keyboard | *Some:* USB full-size keyboard, black<br>*Some:* USB full-size keyboard, white |
| Mouse | *Some:* USB Optical Wheel Mouse, black<br>*Some:* USB Optical Wheel Mouse, white |
| Remote control | None |
| Dimensions[3] | *(WxHxD) including stand:* 18.09" x 15.59" x 9.38"; 459.5mm x 396.1mm x 238.2mm |
| Weight[2] | From 12.65lb (5.74kg), vary by configuration |
| Chassis | Front bezel: black or white color; back bezel: black or white color |
| Stand | Easily adjustable stand (5° forward / 25° backward viewing angle adjustment) |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo Fun Zone
- Power Setting
- SRS Premium Sound
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

65-watt AC adapter
ENERGY STAR® qualified
RoHS-compliant

**Limited Warranty**[12]
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[23], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7[16] toll-free support for warranty issues during the warranty period[12] via 877-453-6686**

See footnotes for important warranty information
US models announced December 21, 2011

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# Lenovo® C325 (3095)



| Type-model | Pro-cessor | GHz | Memory | Wide-screen display | Multi-Touch screen | Camera (mega-pixel) | Graphics | SATA disk | SATA optical | Color | TV tuner | PCIe Mini Card 802.11 | Remote control | HDMI-out | Keyboard/ Mouse | Win7 preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3095-8AU | E-450 | 1.65 | 4GBx1 | 20.0" HD+ | None | 0.3M | HD 6320 | 500GB[8] | DVD±RW | Black | None | 11b/g/n[28] | None | | USB/Black | Prem 64 |
| 3095-3BU | E-450 | 1.65 | 4GBx1 | 20.0" HD+ | None | 0.3M | HD 6320 | 500GB | DVD±RW | Black | None | 11b/g/n | None | HDMI-out | USB/Black | Prem 64 |

- ***All-In-One design with 20.0" 16:9 wide screen with optional multi-touch***
- ***SRS® Premium Sound audio enhancement for immersive surround sound***
- ***Audio-in port to play music from your MP3 player without switching on the computer***
- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD Accelerated Processor E-450** (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz) |
| Memory | 8GB max[7] / non-parity, **PC3-10600 1333MHz DDR3**, two 204-pin SO-DIMM sockets |
| SATA DVD±RW | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in |
| SATA disk | **500GB** (7200 rpm), SATA 3.0Gb/s, 3.5" wide |
| Widescreen display | **20.0"** (508mm) **HD+ (1600x900) TFT color**, **LED** backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio |
| Multi-touch | None |
| Camera | Camera on top of screen, 0.3-megapixel, fixed focus |
| Controls | Power on/off, menu, left, right, and display on/off buttons |
| Graphics | **AMD Radeon HD 6320 Graphics** in processor, DirectX® 11, use system memory |
| Chipset | **AMD A45 FCH** |
| Multicard reader | 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity) |
| Ports | *Rear:* Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out<br>*Side:* Two USB 2.0 |
| PCIe Mini Card 11b/g/n[28] | Two PCIe Mini Card slots (one full size and one half size)<br>11b/g/n wireless[4], PCIe half Mini Card, Broadcom®, Realtek®, or Atheros® chip |
| TV tuner | None |
| Bluetooth™ | None |
| Modem | None |
| Ethernet | Gigabit ethernet on planar, Realtek RTL8111E |
| Audio support | High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm) |
| Security | Power-on password, administrator password, security lockhole |
| Keyboard | USB full-size keyboard, black |
| Mouse | USB Optical Wheel Mouse, black |
| Remote control | None |
| Dimensions[3] | *(WxHxD) including stand:* 19.65" x 16.82" x 9.38"; 499.0mm x 427.2mm x 238.2mm |
| Weight[2] | *Non-touch models:* from 13.9lb (6.3kg), vary by configuration<br>*Touch models:* from 15.7lb (7.1kg), vary by configuration |
| Chassis | Front bezel: black or white color; back bezel: black or white color |
| Stand | Easily adjustable stand (5° forward / 25° backward viewing angle adjustment) |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo Fun Zone
- Power Setting
- SRS Premium Sound
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

65-watt AC adapter
ENERGY STAR® qualified
RoHS-compliant

**Limited Warranty**[12]
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[23], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7**[16] **toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US models announced March 21, 2012

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# Lenovo® C325 (3095) - web only models



| Type-model | Pro-cessor | GHz | Memory | Wide-screen display | CCFL or LED | Multi-Touch screen | Camera (mega-pixel) | Graphics | SATA disk | SATA optical | Color | TV tuner | PCIe Mini Card 802.11 | Remote control | Keyboard/ Mouse | Win7 preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3095-2AU | E-450 | 1.65 | 4+2GB | 20.0" HD+ | LED | | 0.3M | HD 6320 | 1TB[8] | DVD±RW | White | | 11b/g/n[28] | | USB/White | Prem 64 |
| 3095-3AU | E-450 | 1.65 | 4GBx2 | 20.0" HD+ | LED | | 0.3M | HD 6320 | 1TB | DVD±RW | Black | | 11b/g/n | | USB/Black | Prem 64 |
| 3095-4AU | E-450 | 1.65 | 4+2GB | 20.0" HD+ | LED | Multi | 0.3M | HD 6320 | 1TB | DVD±RW | Black | TV | 11b/g/n | Remote/Black | USB/Black | Prem 64 |
| 3095-5AU | E-450 | 1.65 | 4+2GB | 20.0" HD+ | LED | | 0.3M | HD 6320 | 1TB | DVD±RW | White | TV | 11b/g/n | Remote/White | USB/White | Prem 64 |
| 3095-6AU | E-450 | 1.65 | 4GBx2 | 20.0" HD+ | LED | | 0.3M | HD 6320 | 1TB | DVD±RW | Black | TV | 11b/g/n | Remote/Black | USB/Black | Prem 64 |
| ☞ 3095-8BU | E-350 | 1.60 | 4GBx2 | 20.0" HD+ | LED | | 0.3M | HD 6310 | 1TB | DVD±RW | White | | 11b/g/n | | USB/White | Prem 64 |
| ☞ 3095-6BU | E-450 | 1.65 | 4GBx2 | 20.0" HD+ | LED | | 0.3M | HD 6320 | 1TB | DVD±RW | White | TV | 11b/g/n | Remote/White | USB/White | Prem 64 |
| ☞ 3095-2CU | E-450 | 1.65 | 4GBx2 | 20.0" HD+ | LED | | 0.3M | HD 6320 | 1TB | DVD±RW | Black | TV | 11b/g/n | Remote/Black | USB/Black | Prem 64 |

- ***All-In-One design with 20.0" 16:9 wide screen with optional multi-touch***
- ***SRS® Premium Sound audio enhancement for immersive surround sound***
- ***Audio-in port to play music from your MP3 player without switching on the computer***
- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD Accelerated Processor E-350** (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)<br>**AMD Accelerated Processor E-450** (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz) |
| Memory | 8GB max[7] / non-parity, **PC3-10600 1333MHz DDR3***, two 204-pin SO-DIMM sockets<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| SATA DVD±RW<br>SATA disk | DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in<br>**1TB** (7200 rpm), SATA 3.0Gb/s, 3.5" wide |
| Widescreen display<br>Multi-touch<br>Camera<br>Controls | **20.0"** (508mm) **HD+ (1600x900) TFT color**, **LED** backlight, 250 nits**,** 16:9 aspect ratio, 1000:1 contrast ratio<br>*Some:* multi-touch, 2-point support<br>Camera on top of screen, 0.3-megapixel, fixed focus<br>Power on/off, menu, left, right, and display on/off buttons |
| Graphics | **AMD Radeon HD 6320** or **HD 6310 Graphics** in processor, DirectX® 11, use system memory |
| Chipset<br>Multicard reader<br>Ports | **AMD A45 FCH**<br>6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity)<br>*Rear:* Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner<br>*Side:* Two USB 2.0 |
| PCIe Mini Card 11b/g/n[28]<br>TV tuner<br>Bluetooth™<br>Modem<br>Ethernet<br>Audio support<br>Security | Two PCIe Mini Card slots (one full size and one half size)<br>11b/g/n wireless[4], PCIe half Mini Card, Broadcom®, Realtek®, or Atheros® chip<br>*Some:* ATSC tuner, supports analog and digital signal, PCIe Mini Card<br>None<br>None<br>Gigabit ethernet on planar, Realtek RTL8111E<br>High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)<br>Power-on password, administrator password, security lockhole |
| Keyboard<br><br>Mouse<br><br>Remote control<br><br>Dimensions[3]<br>Weight[2]<br><br>Chassis<br>Stand | *Some:* USB full-size keyboard, black<br>*Some:* USB full-size keyboard, white<br>*Some:* USB Optical Wheel Mouse, black<br>*Some:* USB Optical Wheel Mouse, white<br>*Some:* MCE remote control, via IR, black<br>*Some:* MCE remote control, via IR, white<br>*(WxHxD) including stand:* 19.65" x 16.82" x 9.38"; 499.0mm x 427.2mm x 238.2mm<br>*Non-touch models:* from 13.9lb (6.3kg), vary by configuration<br>*Touch models:* from 15.7lb (7.1kg), vary by configuration<br>Front bezel: black or white color; back bezel: black or white color<br>Easily adjustable stand (5° forward / 25° backward viewing angle adjustment) |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[14] (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo Fun Zone
- Power Setting
- SRS Premium Sound
- Lenovo IdeaTouch (Touch models)
  - – PowerCinema
  - – Lenovo VeriTouch
  - – PhotoStudio Paint
  - – Lenovo Ebook and Quick Notes
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

65-watt AC adapter
ENERGY STAR® qualified
RoHS-compliant

**Limited Warranty**[12]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[23], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1552)
  - **3-year Lenovo In-Home Repair 9x5 Next Business Day** (78Y1553)
- **24x7**[16] **toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information

☞ US model(s) announced June 6, 2012; previous models on December 21, 2011

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# Lenovo® H215 (0893) - Windows 7



| Type-model | Slot x bay | Processor | GHz | L2 cache | Cores | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | TV tuner | Power supply | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0893-1EU | 4x4 | Athlon II X2 240 | 2.80 | 2MB | 2 | 2GBx1 | 16-in-1 | 320GB[2] | DVD±RW | Radeon 3000 | None | 180W | Prem 32 | Aug 10 |
| 0893-1FU | 4x4 | Athlon II X2 240 | 2.80 | 2MB | 2 | 2GBx2 | 16-in-1 | 1TB | DVD±RW | Radeon 3000 | None | 180W | Prem 64 | Aug 10 |

- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD® Athlon™ II X2 Processor 240** with **dual-core,** 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, integrated DDR3 memory controller, and 2MB L2 cache (1MB per core) |
| Implementation | Processor in Socket AM3 |
| Memory | **2GB** or **4GB std**, 4GB max[8], dual-channel capable, **PC3-8500 1066MHz DDR3**, non-parity, two 240-pin DIMM sockets |
| Graphics | **ATI™ Radeon™ 3000**, integrated graphics in 760G, uses main memory, DirectX® 10, ATI Avivo™, one analog VGA DB-15 connector, one HDMI connector, HDCP |
| SATA disk | **320GB** or **1TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in SB710 |
| SATA DVD±RW | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 16-in-1 media reader |
| Chipset | **AMD 760G Chipset** with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, Realtek® ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Ethernet | 10/100 ethernet on planar, Realtek 8103EL |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | 104-key standard keyboard (PS/2 connector) |
| Mouse | Optical Wheel Mouse (USB connector) |
| Power supply | 180 watts, universal, manual switch |

**Tower**

- Black bezel with glossy finish
- 6.9" W X 16.2" D X 14.2" H
- 175mm W X 412mm D X 360mm H
- 17.6 lb (8.0 kg), weight may vary by configuration

| | | | |
|---|---|---|---|
| Bay ① | 5.25", | 1.6" high, access, | standard optical |
| Bay ② | N/A, | N/A, N/A, | media reader* |
| Bay ③ | 3.5", | 1" high, no access, | standard disk |
| Bay ④ | 3.5", | 1" high, no access, | optional disk |

* Only for optional 16-in-1 media reader

Slot 1: half-length, full-height, PCI Express x16 Ver 2.0
Slot 2: half-length, full-height, PCI Express x1 Ver 2.0
Slot 3: half-length, full-height, PCI Express x1 Ver 2..0
Slot 4: half-length, full-height, 32-bit PCI Ver 2.3

**Preloaded operating system**[20]

- *Some:* Genuine Windows® 7 Home Premium 32
- *Some:* Genuine Windows 7 Home Premium 64

**Preloaded applications**[5]

- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Windows Live™ Essential
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7[14] toll-free support for warranty issues during the warranty period[1] via 877-453-6686**

See footnotes for important warranty information
US models announced August 25, 2010

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# Lenovo® H330 (7780) - Windows 7



| Type-model | Slot x bay | Pro-cessor | GHz | Max turbo (GHz) | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | 802.11 wireless | USB3.0 | Power supply | Keyboard/ Mouse | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7780-1PU | 2x3 | i3-2100 | 3.10 | | 2GBx2 | 8-in-1 | 1.5TB[2] | DVD±RW | Intel HD Graphics | 11b/g/n | None | 180W | PS/2 / USB | Prem 64 | Jul 11 |
| 7780-1MU | 2x3 | G620 | 2.60 | | 2GB+1 | 8-in-1 | 500GB | DVD±RW | Intel HD Graphics | 11b/g/n | None | 180W | PS/2 / USB | Prem 64 | Jul 11 |
| 7780-1NU | 2x3 | G620 | 2.60 | | 2GBx2 | 8-in-1 | 1TB | DVD±RW | Intel HD Graphics | 11b/g/n | None | 180W | PS/2 / USB | Prem 64 | Jul 11 |
| 7780-4FU | 2x3 | G620 | 2.60 | | 4GBx1 | 8-in-1 | 500GB | DVD±RW | Intel HD Graphics | 11b/g/n | None | 180W | PS/2 / USB | Prem 64 | Dec 11 |
| 7780-3FU | 2x3 | i3-2120 | 3.30 | | 4GBx1 | 8-in-1 | 1.5TB | DVD±RW | Intel HD Graphics | 11b/g/n | None | 180W | PS/2 / USB | Prem 64 | Dec 11 |
| ☞ 7780-5PU | 2x3 | i3-2120 | 3.30 | | 4GBx1 | 8-in-1 | 500GB | DVD±RW | Intel HD Graphics | 11b/g/n | None | 180W | USB / USB | Prem 64 | Feb 12 |
| ☞ 7780-5QU | 2x3 | i5-2320 | 3.00 | 3.30 | 4+2GB | 8-in-1 | 500GB | DVD±RW | Intel HD Graphics | 11b/g/n | None | 250W | USB / USB | Prem 64 | Feb 12 |

- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **Intel® Pentium® G620 Processor** (**2 cores / 2 threads**, 2.60 GHz, 3M Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller<br>**Intel Core™ i3-2100 Processor** (**2 cores / 4 threads**, 3.10 GHz, 3M Cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i3-2120 Processor** (**2 cores / 4 threads**, 3.30 GHz, 3M Cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i5-2320 Processor** (**4 cores / 4 threads**, 3.00 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller |
| Implementation | Processor in LGA1155 socket |
| Memory | 8GB max[8], **PC3-10600 1333MHz DDR3***, non-parity, dual-channel capable, two 240-pin DIMM sockets<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| Graphics | **Intel HD Graphics**, integrated graphics in processor, uses main memory, DirectX® 10, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models) |
| SATA disk | **500GB**, **1TB**, or **1.5TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA optical | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), two SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 8-in-1 media reader |
| Chipset | **Intel H61 Express Chipset** |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Wireless | 11b/g/n wireless[4], PCIe x1 adapter |
| Ethernet | Gigabit ethernet on planar, Intel 82579V |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | *Some:* Full-size keyboard (PS/2 connector), Fn keys, black<br>*Some:* Full-size keyboard (USB connector), Fn keys, black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | *Some:* 180 watts, universal, manual switch<br>*Some:* 250 watts, universal, auto-sensing |

**Small Form Factor**

- Black bezel with glossy finish
- 3.9" W X 15.7" D X 11.5" H
- 100mm W X 400mm D X 293mm H
- 21.5 lb (9.75 kg) vary by configuration

Bay ① 5.25", 1.6" high, access, standard optical
Bay ② 3.3", 0.6" high, access, 8-in-1 media reader
Bay ③ 3.5", 1" high, no access, standard disk

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0**
Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0*

* Wireless adapter in slot in some models
** Graphics adapter in slot in some models

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Cyberlink PowerDVD (DVD±RW)
- CyberLink Power2Go (DVD±RW)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):[9]**
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7[14] toll-free support for warranty issues during the warranty period[1] via 877-453-6686**

See footnotes for important warranty information

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☞ US models announced February 29, 2012; previous models on July 6 or December 21, 2011

# Lenovo® H330 (7780) - Windows 7 (web only models)



| Type-model | Slot x bay | Pro-cessor | GHz | Max turbo (GHz) | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | 802.11 wireless | USB3.0 | Power supply | Keyboard/ Mouse | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7780-1HU | 2x3 | i5-2500 | 3.30 | 3.70 | 4GBx2 | 8-in-1 | 1TB[2] | Blu-ray | Radeon HD 6450 | None | None | 250W | PS/2 / USB | Prem 64 | Jun 11 |
| 7780-1JU | 2x3 | i3-2120 | 3.30 | | 4+2GB | 8-in-1 | 500GB | DVD±RW | Intel HD Graphics | None | None | 180W | PS/2 / USB | Prem 64 | Jun 11 |
| ☞ 7780-4JU | 2x3 | i3-2120 | 3.30 | | 4GBx1 | 8-in-1 | 1TB | DVD±RW | Intel HD Graphics | None | None | 250W | USB / USB | Prem 64 | Feb 12 |
| ☞ 7780-4KU | 2x3 | i5-2320 | 3.00 | 3.30 | 4GBx2 | 8-in-1 | 2TB | Blu-ray | Radeon HD 6570 | None | None | 250W | USB / USB | Prem 64 | Feb 12 |
| ☞ 7780-4LU | 2x3 | i5-2320 | 3.00 | 3.30 | 4GBx2 | 8-in-1 | 2TB | DVD±RW | Intel HD Graphics | None | None | 250W | USB / USB | Prem 64 | Feb 12 |
| ☞ 7780-4MU | 2x3 | i7-2600 | 3.30 | 3.70 | 4GBx2 | 8-in-1 | 2TB | Blu-ray | Radeon HD 6570 | None | None | 250W | USB / USB | Prem 64 | Feb 12 |

- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **Intel® Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i5-2320 Processor** (**4 cores / 4 threads**, 3.00 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i5-2500 Processor** (**4 cores / 4 threads**, 3.30 GHz, 6MB Cache),Turbo Boost Technology 2.0 (up to 3.70 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i7-2600 Processor** (**4 cores / 8 threads**, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.80 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller |
| Implementation | Processor in LGA1155 socket |
| Memory | 8GB max[8], **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 240-pin DIMM sockets |
| Graphics | *Some:* **Intel HD Graphics**, integrated graphics in processor, uses main memory, DirectX® 10, one analog VGA DB-15 connector, one HDMI connector, HDCP<br>*Some:* **AMD Radeon™ HD 6450**, PCI Express® x16, **1GB memory**, DirectX 11, one analog VGA DB-15 connector, one HDMI connector, HDCP<br>*Some:* **AMD Radeon HD 6570**, PCI Express x16, **1GB memory**, DirectX 11, one analog VGA DB-15 connector, one HDMI connector, HDCP |
| SATA disk | **500GB**, **1TB**, or **2TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA optical | *Some:* Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive<br>*Some:* Blu-ray™ Disc reader (no Blu-ray media burning), BD-ROM, DVD and CD recordable |
| SATA cables | Two SATA cables (each 1-drop to device), two SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 8-in-1 media reader |
| Chipset | **Intel H61 Express Chipset** |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Wireless | None |
| Ethernet | Gigabit ethernet on planar, Intel 82579V |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | *Some:* Full-size keyboard (PS/2 connector), Fn keys, black<br>*Some:* Full-size keyboard (USB connector), Fn keys, black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | *Some:* 180 watts, universal, manual switch<br>*Some:* 250 watts, universal, auto-sensing |

**Small Form Factor**

- Black bezel with glossy finish
- 3.9" W X 15.7" D X 11.5" H
- 100mm W X 400mm D X 293mm H
- 21.5 lb (9.75 kg) vary by configuration

Bay ① 5.25", 1.6" high, access, standard optical
Bay ② 3.3", 0.6" high, access, 8-in-1 media reader
Bay ③ 3.5", 1" high, no access, standard disk

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0**
Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0*

* Wireless adapter in slot in some models
** Graphics adapter in slot in some models

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Cyberlink PowerDVD (DVD±RW, Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7[14] toll-free support for warranty issues during the warranty period[1] via 877-453-6686**

See footnotes for important warranty information

☞ US models announced February 29, 2012; previous models on June 22, 2011

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# Lenovo® H405 (7723) - Windows 7

| Type-model | Slot x bay | Processor | GHz | L2 cache | Cores | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | TV tuner | Power supply | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7723-1AU | 4x4 | Athlon II X2 255 | 3.10 | 2MB | 2 | 2GBx1 | 6-in-1 | 500GB[2] | DVD±RW | Radeon 3000 | None | 180W | Prem 64 | Jan 11 |
| 7723-1CU | 4x4 | Athlon II X4 645 | 3.10 | 2MB | 4 | 2GBx2 | 6-in-1 | 1TB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Jan 11 |
| 7723-1DU | 4x4 | Athlon II X4 645 | 3.10 | 2MB | 4 | 2+4GB | 6-in-1 | 1TB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Jan 11 |
| 7723-1EU | 4x4 | Athlon II X2 255 | 3.10 | 2MB | 2 | 2GBx2 | 6-in-1 | 500GB | DVD±RW | Radeon 3000 | None | 180W | Prem 64 | Jan 11 |
| 7723-1FU | 4x4 | Athlon II X2 255 | 3.10 | 2MB | 2 | 1+2GB | 6-in-1 | 500GB | DVD±RW | Radeon 3000 | None | 180W | Prem 64 | Jan 11 |

- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD® Athlon™ II X2 Processor 255** with **dual-core,** 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, integrated 1066MHz DDR3 memory controller, and 2MB L2 cache (1MB per core)<br>**AMD Athlon II X4 Processor 645** with **quad-core,** 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 technology, integrated 1333MHz DDR3 memory controller, and 2MB L2 cache (512kB per core) |
| Implementation | Processor in Socket AM3 |
| Memory | **2GB**, **3GB**, **4GB**, or **6GB std**, 8GB max[8], dual-channel capable, **PC3-10600 1333MHz DDR3**, non-parity, two 240-pin DIMM sockets<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| Graphics | **ATI™ Radeon™ 3000**, integrated graphics in 760G, uses main memory, DirectX® 10, ATI Avivo™, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant |
| SATA disk | **500GB** or **1TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in SB710 |
| SATA DVD±RW | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 6-in-1 media reader |
| Chipset | **AMD 760G Chipset** with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, Realtek® ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Ethernet | 10/100 ethernet on planar, Realtek 8103EL |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | 104-key standard keyboard (PS/2 connector), black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | *Some:* 180 watts, universal, manual switch<br>*Some:* 280 watts, universal, manual switch |

**Tower**

- Black bezel with glossy finish
- 6.9" W X 16.9" D X 14.5" H
- 175mm W X 430mm D X 368mm H
- 17.6 lb (8.0 kg), weight may vary by configuration

| | | | | |
|---|---|---|---|---|
| Bay ① | 5.25", | 1.6" high, | access, | standard optical |
| Bay ② | N/A, | N/A, | N/A, | media reader* |
| Bay ③ | 3.5", | 1" high, | no access, | standard disk |
| Bay ④ | 3.5", | 1" high, | no access, | optional disk |

* Only for optional 6-in-1 media reader

Slot 1: half-length, full-height, PCI Express x16 Ver 2.0
Slot 2: half-length, full-height, PCI Express x1 Ver 2.0
Slot 3: half-length, full-height, PCI Express x1 Ver 2.0
Slot 4: half-length, full-height, 32-bit PCI Ver 2.3

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Windows Live™ Essential
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)
- Lenovo Dynamic Brightness System*
- Lenovo Eye Distance System*

* Only applicable for optional Lenovo L2362p monitors

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7[14] toll-free support for warranty issues during the warranty period[1] via 877-453-6686**

See footnotes for important warranty information
US models announced January 12, 2011

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# Lenovo® H405 (7723) - Windows 7 (July 2011)



| Type-model | Slot x bay | Processor | GHz | L2 cache | Cores | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | TV tuner | Power supply | Win7 preload | Avail date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7723-1MU | 4x4 | Athlon II X2 260 | 3.20 | 2MB | 2 | 2GBx1 | 6-in-1 | 500GB[2] | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Jul 11 |
| 7723-1NU | 4x4 | Athlon II X2 260 | 3.20 | 2MB | 2 | 2GBx2 | 6-in-1 | 500GB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Jul 11 |
| 7723-1KU | 4x4 | Athlon II X4 650 | 3.20 | 2MB | 4 | 4+2GB | 6-in-1 | 1TB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Jul 11 |
| 7723-1LU | 4x4 | Athlon II X4 650 | 3.20 | 2MB | 4 | 2GBx2 | 6-in-1 | 1TB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Jul 11 |
| ☞ 7723-2CU | 4x4 | Athlon II X2 260 | 3.20 | 2MB | 2 | 2GBx2 | 6-in-1 | 1TB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Dec 11 |
| ☞ 7723-2DU | 4x4 | Athlon II X4 650 | 3.20 | 2MB | 4 | 4+2GB | 6-in-1 | 1.5TB | DVD±RW | Radeon 3000 | None | 280W | Prem 64 | Dec 11 |

- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD® Athlon™ II X2 Processor 260** with **dual-core,**<br>4000MHz HyperTransport™ Bus,<br>AMD Virtualization™ (AMD-V™) technology,<br>AMD64 technology, integrated 1066MHz DDR3 memory controller,<br>and 2MB L2 cache (1MB per core)<br>**AMD Athlon II X4 Processor 650** with **quad-core,**<br>4000MHz HyperTransport Bus,<br>AMD Virtualization (AMD-V) technology,<br>AMD64 technology, integrated 1333MHz DDR3 memory controller,<br>and 2MB L2 cache (512KB per core) |
| Implementation | Processor in Socket AM3 |
| Memory | 8GB max[8], dual-channel capable, **PC3-10600 1333MHz DDR3**,<br>non-parity, two 240-pin DIMM sockets<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| Graphics | **ATI™ Radeon™ 3000**, integrated graphics in 760G,<br>uses main memory, DirectX® 10, ATI Avivo™,<br>one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant |
| SATA disk | **500GB**, **1TB**, or **1.5TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in SB710 |
| SATA DVD±RW | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 6-in-1 media reader |
| Chipset | **AMD 760G Chipset** with HyperTransport 3.0 and PCI Express® 2.0 support;<br>SB710 south bridge |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45),<br>monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, Realtek® ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Ethernet | 10/100 ethernet on planar, Realtek 8103EL |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | 104-key standard keyboard (PS/2 connector), black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | 280 watts, universal, manual switch |

**Tower**

- Black bezel with glossy finish
- 6.9" W X 16.9" D X 14.5" H
- 175mm W X 430mm D X 368mm H
- 17.6 lb (8.0 kg), weight may vary by configuration

| | | | |
|---|---|---|---|
| Bay ① | 5.25", | 1.6" high, access, | standard optical |
| Bay ② | N/A, | N/A, N/A, | media reader* |
| Bay ③ | 3.5", | 1" high, access, | standard disk |
| Bay ④ | 3.5", | 1" high, access, | optional disk |

* Only for optional 6-in-1 media reader

Slot 1: half-length, full-height, PCI Express x16 Ver 2.0
Slot 2: half-length, full-height, PCI Express x1 Ver 2.0
Slot 3: half-length, full-height, PCI Express x1 Ver 2.0
Slot 4: half-length, full-height, 32-bit PCI Ver 2.3

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Windows Live™ Essential
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)
- Lenovo Dynamic Brightness System*
- Lenovo Eye Distance System*

* Only applicable for optional Lenovo L2362p monitors

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7[14] toll-free support for warranty issues during the warranty period[1] via 877-453-6686**

See footnotes for important warranty information

☞ US models announced December 21, 2011; previous models on July 6, 2011

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# Lenovo® H420 (7752) - Windows 7



| Type-model | Slot x bay | Processor | GHz | Cache | Cores | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | TV tuner | 802.11 wireless | Power supply | Keyboard / Mouse | Win7 preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7752-1QU | 4x4 | Pentium G620 | 2.60 | 3MB | 2 | 4GBx1 | 6-in-1 | 1TB[2] | DVD±RW | Intel HD | None | | 280W | PS/2 / USB | Prem 64 |
| 7752-1RU | 4x4 | Pentium G620 | 2.60 | 3MB | 2 | 4GBx1 | 6-in-1 | 500GB | DVD±RW | Intel HD | None | | 280W | PS/2 / USB | Prem 64 |
| 7752-1SU | 4x4 | i3-2100 | 3.10 | 3MB | 2 | 4GBx1 | 6-in-1 | 1TB | DVD±RW | Intel HD | None | 11b/g/n | 280W | PS/2 / USB | Prem 64 |
| 7752-1TU | 4x4 | i3-2100 | 3.10 | 3MB | 2 | 4+2GB | 6-in-1 | 1TB | DVD±RW | Intel HD | None | 11b/g/n | 280W | PS/2 / USB | Prem 64 |
| 7752-2CU | 4x4 | i3-2120 | 3.30 | 3MB | 2 | 2GBx2 | 6-in-1 | 1TB | DVD±RW | Intel HD | None | 11b/g/n | 280W | PS/2 / USB | Prem 64 |
| ☞ 7752-5GU | 4x4 | Pentium G630 | 2.70 | 3MB | 2 | 4GBx1 | 6-in-1 | 500GB | DVD±RW | Intel HD | None | | 180W | USB / USB | Prem 64 |
| ☞ 7752-5HU | 4x4 | i3-2120 | 3.30 | 3MB | 2 | 4+2GB | 6-in-1 | 500GB | DVD±RW | Intel HD | None | | 280W | USB / USB | Prem 64 |

- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **Intel® Pentium® G620 Processor** (**2 cores / 2 threads**, 2.60 GHz, 3MB Cache)<br>integrated Intel HD Graphics,<br>integrated 1066MHz dual-channel DDR3 memory controller<br>**Intel® Pentium® G630 Processor** (**2 cores / 2 threads**, 2.70 GHz, 3MB Cache)<br>integrated Intel HD Graphics,<br>integrated 1066MHz dual-channel DDR3 memory controller<br>**Intel Core™ i3-2100 Processor** (**2 cores / 4 threads**, 3.10 GHz, 3MB Cache),<br>integrated Intel HD Graphics,<br>integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i3-2120 Processor** (**2 cores / 4 threads**, 3.30 GHz, 3MB Cache),<br>integrated Intel HD Graphics,<br>integrated 1333MHz dual-channel DDR3 memory controller |
| Implementation | Processor in LGA1155 socket |
| Memory | 8GB max[8], dual-channel capable, **PC3-10600 1333MHz DDR3***, non-parity,<br>two 240-pin DIMM sockets<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| Graphics | **Intel HD Graphics,** integrated graphics in processor,<br>uses main memory, DirectX®10, one analog VGA DB-15 connector,<br>one HDMI connector, HDCP-compliant (only for i3/i5/i7 models) |
| SATA disk | **500GB** or **1TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA DVD±RW | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 6-in-1 media reader |
| Chipset | **Intel H61 Express Chipset** |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45),<br>monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, Realtek® ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Wireless | *Some:* 11b/g/n wireless[4], PCIe x1 adapter |
| Ethernet | Gigabit ethernet on planar, Intel 82579LM |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | *Some:* standard keyboard (PS/2 connector), black<br>*Some:* standard keyboard (USB connector), black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | *Some:* 180 watts, universal, manual switch<br>*Some:* 280 watts, universal, manual switch |
| Mechanical | **Tower**<br>• Black bezel with glossy finish<br>• 6.9" W X 16.9" D X 14.5" H<br>• 175mm W X 430mm D X 368mm H<br>• 17.6 lb (8.0 kg), weight may vary by configuration<br>Bay ① 5.25", 1.6" high, access, standard optical<br>Bay ② N/A, N/A, N/A, media reader*<br>Bay ③ 3.5", 1" high, no access, standard disk<br>Bay ④ 3.5", 1" high, no access, optional disk<br>* Only for optional 6-in-1 media reader<br>Slot 1: half-length,full-height, PCI Express x16 Ver 2.0<br>Slot 2: half-length,full-height, PCI Express x1 Ver 2.0*<br>Slot 3: half-length,full-height, PCI Express x1 Ver 2.0<br>Slot 4: half-length,full-height, PCI Express x1 Ver 2.0<br>* Wireless adapter in slot in some models |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)
- Lenovo Dynamic Brightness System*
- Lenovo Eye Distance System*

* Only applicable for optional Lenovo L2362p monitors

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7**[14] **toll-free support for warranty issues during the warranty period**[1] **via 877-453-6686**

See footnotes for important warranty information

☞ US model(s) announced March 21, 2012; previous models on July 6 or December 21, 2011

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# Lenovo® H415 (3099)



| Type-model | Slot x bay | Processor | GHz | Cores | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | TV tuner | 802.11 wireless | Power supply | Keyboard / Mouse | Win7 preload | Avail data |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3099-1NU | 4x4 | A6-3600 | 2.10 | 4 | 4GBx1, 1333 | 6-in-1 | 500GB[2] | DVD±RW | HD 6530D | None | None | 180W | USB / USB | Prem 64 | Apr 12 |
| 3099-1RU | 4x4 | A8-3800 | 2.40 | 4 | 2+4GB, 1333 | 6-in-1 | 500GB | DVD±RW | HD 6550D | None | None | 280W | USB / USB | Prem 64 | Apr 12 |
| ☞ 3099-1DU | 4x4 | E2-3200 | 2.40 | 2 | 4GBx1, 1333 | 6-in-1 | 500GB | DVD±RW | HD 6370D | None | None | 180W | USB / USB | Prem 64 | Aug12 |
| ☞ 3099-1VU | 4x4 | A4-3420 | 2.80 | 2 | 2+4GB, 1333 | 6-in-1 | 500GB | DVD±RW | HD 6410D | None | None | 180W | USB / USB | Prem 64 | Aug12 |
| ☞ 3099-1UU | 4x4 | A6-3620 | 2.20 | 4 | 2+4GB, 1600 | 6-in-1 | 1TB | DVD±RW | HD 6530D | None | None | 280W | USB / USB | Prem 64 | Aug12 |
| ☞ 3099-1TU | 4x4 | A8-3850 | 2.90 | 4 | 4GBx2, 1600 | 6-in-1 | 1TB | DVD±RW | HD 6550D | None | None | 280W | USB / USB | Prem 64 | Aug12 |

- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **AMD Accelerated Processor E2-3200** (dual-core, 2.40GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6370D Graphics, integrated DDR3 memory controller (up to 1600MHz)<br>**AMD Accelerated Processor A4-3420** (dual-core, 2.80GHz, 1MB L2 cache), integrated AMD Radeon HD 6410D Graphics, integrated DDR3 memory controller (up to 1600MHz)<br>**AMD Accelerated Processor A6-3600** (quad-core, 2.10GHz, 4MB L2 cache), integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1866MHz)<br>**AMD Accelerated Processor A6-3620** (quad-core, 2.20GHz, 4MB L2 cache), integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1866MHz)<br>**AMD Accelerated Processor A8-3800** (quad-core, 2.40GHz, 4MB L2 cache), integrated AMD Radeon HD 6550D Graphics, AMD Turbo Core technology (up to 2.70GHz), integrated DDR3 memory controller (up to 1866MHz)<br>**AMD Accelerated Processor A8-3850** (quad-core, 2.90GHz, 4MB L2 cache), integrated AMD Radeon HD 6550D Graphics, integrated DDR3 memory controller (up to 1866MHz) |
| Implementation | Processor in FM1 socket |
| Memory | 8GB max[8], dual-channel capable, **PC3-10600 1333MHz DDR3** or **PC3-12800 1600MHz DDR3**, non-parity, two 240-pin DIMM sockets |
| Graphics | **AMD Radeon HD Graphics**, integrated graphics in processor, uses main memory, DirectX® 11, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant |
| SATA disk | **500GB** or **1TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA DVD±RW | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), three SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 6-in-1 media reader |
| Chipset | **AMD A55 FCH** |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, Realtek® ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Wireless | None |
| Ethernet | Gigabit ethernet on planar, Realtek RTL8111E |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | Full-size keyboard (USB connector), Fn keys, black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | *Some:* 180 watts, universal, manual switch<br>*Some:* 280 watts, universal, manual switch |
| Mechanical | **Tower**<br>• Black bezel with glossy finish<br>• 6.9" W X 16.9" D X 14.5" H<br>• 175mm W X 430mm D X 368mm H<br>• 17.6 lb (8.0 kg), weight may vary by configuration<br>Bay ① 5.25", 1.6" high, access, standard optical<br>Bay ② N/A, N/A, N/A, media reader*<br>Bay ③ 3.5", 1" high, no access, standard disk<br>Bay ④ 3.5", 1" high, no access, optional disk<br>* Only for optional 6-in-1 media reader<br>Slot 1: half-length,full-height, PCI Express x16 Ver 2.0<br>Slot 2: half-length,full-height, PCI Express x1 Ver 2.0**<br>Slot 3: half-length,full-height, PCI Express x1 Ver 2.0<br>Slot 4: half-length,full-height, PCI Express x1 Ver 2.0<br>** Wireless adapter in slot in some models |

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® Internet Security (30-Day Trial)
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)
- Lenovo Dynamic Brightness System*
- Lenovo Eye Distance System*

* Only applicable for optional Lenovo L2362p monitors

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7**[14] **toll-free support for warranty issues during the warranty period**[1] **via 877-453-6686**

See footnotes for important warranty information

☞ US model(s) announced August 17, 2012; previous model(s) April 11, 2012

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# Lenovo® H520s (2561)



| Type-model | Slot x bay | Pro-cessor | GHz | Max turbo (GHz) | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | 802.11 wireless | USB3.0 | Power supply | Keyboard/ Mouse | Win7 preload | Avail date (mm/yy) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2561-2JU | 2x2 | G640 | 2.80 | | 4GBx1 | 7-in-1 | 500GB[2] | DVD±RW | Intel HD Graphics | 11b/g/n[28] | None | 180W | USB / USB | Prem 64 | 08/12 |
| 2561-1SU | 2x2 | i3-2120 | 3.30 | | 4GBx1 | 7-in-1 | 1TB | DVD±RW | Intel HD 2000 | 11b/g/n | None | 180W | USB / USB | Prem 64 | 08/12 |
| 2561-1LU | 2x2 | i5-2320 | 3.00 | 3.30 | 4+2GB | 7-in-1 | 1TB | DVD±RW | Intel HD 2000 | 11b/g/n | None | 240W | USB / USB | Prem 64 | 08/12 |

- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **Intel® Pentium® G640 Processor** (**2 cores / 2 threads**, 2.80 GHz, 3MB Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller<br>**Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i5-2320 Processor** (**4 cores / 4 threads**, 3.00 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller |
| Implementation | Processor in LGA1155 socket |
| Memory | 8GB max[8], **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 240-pin DIMM sockets<br>* System automatically clocks down for processors with 1066MHz DDR3 memory controller |
| Graphics | **Intel HD Graphics** or **Intel HD Graphics 2000**, integrated in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP |
| SATA disk | **500GB** or **1TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA optical | Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive |
| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Multicard reader | 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro) |
| Chipset | **Intel H61 Express Chipset** |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Wireless | 11b/g/n wireless[4], PCIe Half Mini Card, Realtek® or Atheros® chip |
| Ethernet | Gigabit ethernet on planar, Realtek RTL8111F |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | Full-size keyboard (USB connector), Fn keys, black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | *Some:* 180 watts, universal, manual switch<br>*Some:* 240 watts, universal, auto-sensing |

**Small Form Factor (11L)**

- Glossy black and brushed metal
- 4.1" L X 14.2" D X 12.0" H
- 105mm W X 360mm D X 305mm H
- 17.4 lb (7.9 kg) vary by configuration

Bay ① 5.25", 1.6" high, access, standard optical
Bay ② 3.5", 1" high, no access, standard disk

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0*
Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0**

* Graphics adapter in slot on some models
** TV tuner or USB 3.0 card in slot on some models

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)
- Power Setting
- Cyberlink PowerDVD (Blu-ray models)
- CyberLink Power2Go (DVD±RW, Blu-ray models)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7**[14] **toll-free support for warranty issues during the warranty period**[1] **via 877-453-6686**

See footnotes for important warranty information
US model(s) announced August 17, 2012

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# Lenovo® H520s (4746) - web only models



| Type-model | Slot x bay | Pro-cessor | GHz | Max turbo (GHz) | Memory[8] | Media reader | SATA disk | SATA optical | Graphics | 802.11 wireless | USB3.0 | Power supply | Keyboard/ Mouse | Win7 preload | Avail date (mm/yy) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4746-1DU | 2x2 | i3-2120 | 3.30 | | 4+2GB | 7-in-1 | 1TB[2] | DVD±RW | Radeon HD 7570 | None | USB3.0 | 240W | 2.4G / 2.4G | Prem 64 | 06/12 |
| 4746-1FU | 2x2 | i7-3770 | 3.40 | 3.90 | 4GBx2 | 7-in-1 | 2TB | DVD±RW | Intel HD 4000 | None | USB3.0 | 240W | 2.4G / 2.4G | Prem 64 | 06/12 |
| 4746-1HU | 2x2 | i7-3770 | 3.40 | 3.90 | 4GBx2 | 7-in-1 | 2TB | BD burner | GeForce GT 620 | None | USB3.0 | 240W | 2.4G / 2.4G | Prem 64 | 06/12 |
| 4746-1KU | 2x2 | i7-3770 | 3.40 | 3.90 | 4GBx2 | 7-in-1 | 2TB | BD burner | Radeon HD 7570 | None | USB3.0 | 240W | 2.4G / 2.4G | Prem 64 | 06/12 |

- ***Lenovo Rescue System provides OneKey recovery without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

| | |
|---|---|
| Processor | **Intel® Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller<br>**Intel Core i7-3770 Processor** (**4 cores / 8 threads**, 3.40 GHz, 8MB Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller |
| Implementation | Processor in LGA1155 socket |
| Memory | 8GB max[8], **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 240-pin DIMM sockets |
| Graphics | *Some:* **Intel HD Graphics 4000**, integrated in processor, uses main memory, DirectX® 11, one analog VGA DB-15 connector, one HDMI connector, HDCP<br>*Some:* **NVIDIA GeForce GT 620**, PCI Express® x16, **1GB DDR3**, DirectX 11, one analog VGA DB-15 connector, one HDMI connector, HDCP<br>*Some:* **AMD Radeon™ HD 7570**, PCI Express x16, **2GB DDR3**, DirectX 11, one analog VGA DB-15 connector, one HDMI connector, HDCP |
| SATA disk | **1TB** or **2TB**, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA optical | *Some:* Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive<br>*Some:* Blu-ray™ burner, Blu-ray and DVD disk recordable |
| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Multicard reader | 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro) |
| Chipset | **Intel H61 Express Chipset** |
| Front ports | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) |
| Rear ports | Four USB 2.0 and two USB 3.0 (Via USB 3.0 adding card on selected models), ethernet (RJ-45), monitor (VGA DB-15, HDMI) |
| Rear audio ports | Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) |
| Audio | High Definition (HD) audio, ALC662 codec |
| External speakers | None |
| Internal speaker | None |
| Wireless | None |
| Ethernet | Gigabit ethernet on planar, Realtek RTL8111F |
| Modem | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |
| Keyboard | 2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black |
| Mouse | 2.4G wireless Laser Wheel Mouse, black |
| Power supply | 240 watts, universal, auto-sensing, 85% PSU, 80 PLUS® Bronze qualified |

**Small Form Factor (11L)**

- Glossy black and brushed metal
- 4.1" L X 14.2" D X 12.0" H
- 105mm W X 360mm D X 305mm H
- 17.4 lb (7.9 kg) vary by configuration

Bay ① 5.25", 1.6" high, access, standard optical
Bay ② 3.5", 1" high, no access, standard disk

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0*
Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0**

* Graphics adapter in slot on some models
** TV tuner or USB 3.0 card in slot on some models

**Preloaded operating system**[20]
- Genuine Windows® 7 Home Premium 64

**Preloaded applications**[5]
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)
- Power Setting
- Cyberlink PowerDVD (Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

**Limited Warranty**[1]

- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts[3], 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations):**[9]
  - **2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)**
  - **3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)**
- **24x7**[14] **toll-free support for warranty issues during the warranty period**[1] **via 877-453-6686**

See footnotes for important warranty information
US model(s) announced June 21, 2012

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**Partial list of Lenovo® Care Services[22] for Lenovo Essential desktops**

For more information see:
**http://www.lenovo.com/services_warranty/us/en/index.html**

**Lenovo Care service upgrade options**

***Lenovo Essential desktops with 1-year Onsite warranty***

| | |
|---|---|
| 2-year Lenovo Onsite Repair warranty 9x5 | 78Y1552 |
| 3-year Lenovo Onsite Repair warranty 9x5 | 78Y1553 |

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**Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

**Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

**Footnotes:**

[1] Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

[2] **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

[3] **Thinness** may vary at certain points on the system.

[4] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[5] **Post-warranty annual maintenance agreement:** Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.

[6] **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[7] **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

[8] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[9] **Service upgrade options:** Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees.

[10] **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

[11] **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

[12] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[13] **Onsite Repair:** If a machine is listed as having "On-site", this means that on-site service is available for the replacement of parts for warranty repairs. Certain parts, referred to as Customer Replaceable Unit ("CRU") parts, are easy to install and require little or no tools or technical knowledge. Some examples of CRU parts are mice, keyboards, hard disk drives, speakers, and memory. If your problem can be resolved with a CRU, the Support Center will offer to ship the part to you for you to install.

[14] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

[15] **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[16] **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.

[18] **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary and may exclude some holidays.

[19] **Depot repair service:** In the United States call 1-877-453-6686. The customer may be asked certain diagnostic questions before a courier is sent. Your purchase includes this depot repair service, available in the U.S. during the limited warranty period.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

[21] **For combination drives**, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.

[22] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part can be express shipped to you for quick replacement. For notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.

[23] **Customer Replacement Units** (CRUs) are designed to be replaced by customers during the applicable warranty period. Lenovo will send a technician onsite to perform a repair if remote telephone diagnosis does not isolate the problem, if customer replaceable parts are unable to resolve the problem, or at the request of the customer. For a list of customer replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges.

[25] **Wireless WAN Cards:** Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit www.verizonwireless.com.

[28] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

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